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L1	298	genetic and (vibration same (damp\$3 or suppress\$4))	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/10/05 16:10
L2	278	(vibration same (damp\$3 or suppress\$4)) and (vehicle or automobile) and (finite adj element)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/10/05 16:45

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[Optimal placement of piezoelectric sensors and ...](#) - Han - Cited by 81

[Optimal design of robust vibration suppression ...](#) - Itoh - Cited by 9

Optimal Design of Robust Vibration Suppression Controller Using ...

been verified by experiments using a prototype. Index Terms—Synthesis, genetic algorithms (GAs), robust control, vibration suppression. I. I. INTRODUCTION ...

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Optimal design of robust **vibration suppression** controller using **genetic** algorithms

K Itoh, M Iwasaki, N Matsui - IEEE Transactions on Industrial Electronics, 2004 - ieeexplore.ieee.org

... verified by experiments using a prototype. Index Terms—Synthesis, **genetic** algorithms (GAs), robust control, **vibration suppression**. ...

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[CITATION] ... of **vibration suppression** system in space trusses using a **genetic** algorithm. In?,
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MA Rao, J Srinivas, BSN Murthy - Computers and Structures, 2004 - Elsevier

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Q Lu, G Shen, R Yu - Journal of Computational Chemistry, 2002 - interscience.wiley.com

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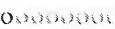
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S Jain, PY Peng, A Tzes, F Khorrami - Journal of Intelligent and Robotic Systems, 1996 - Springer

... algorithms. Key words. Neural network control, **genetic** learning, flexible-link manipulators, **vibration damping**. 1. Introduction ...

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KC Ng, Y Li, DJ Murray-Smith, KC Sharman - **Genetic Algorithms in Engineering Systems: Innovations ...**, 1995 - ieeexplore.ieee.org

... imprecision and external disturbances while the KC provides better damping and reduced ...

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M Moshref-Torbati, AJ Keane, SJ Elliott, MJ ... - Journal of Sound and Vibration, 2003 - Elsevier

... flow analysis models combined with **genetic algorithm** (GA ... in all fields where reduced vibration transmission is ... of the structural viscous **damping** coefficient has ...

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HYV Scholar, Y Takahashi, K Katayama, T ... - Journal of Vibration and Acoustics, 2001 - link.ap.org

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Optimising method for vibration damping - Patent EP1524613

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Double-walled damping structure - US Patent 6708626 Description

In the double-walled **damping** structure described above, less **vibration** is The deformation mode was analyzed by a **finite element** method. Inventor: Vanolo, et al.5403063, Modular integral floor construction for vehicle body ...

www.patentstorm.us/patents/6708626/description.html - Similar**Assessment of a Vehicle Concept Finite-Element Model for ...**

A vehicle concept finite-element model is experimentally assessed for predicting structural **vibration** to 50 Hz. The vehicle concept model represents the body structure with a ... beams, and lumped mass, **damping**, and stiffness elements. ...

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M Petyt - 1998 - books.google.com

... 8 considers the equations for free vibration of an ... The presentation is designed to give the finite element user an ... Methods of representing damping are discussed ...

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[Assessment of highway bridge upgrading by dynamic testing and finite-element model ...](#)

►plym.ac.uk (pdf)

JMW Brownjohn, P Moyo, P Omenzetter, Y Lu - *Journal of Bridge Engineering*, 2003 - link.aip.org

... of the forcing due to vehicle body bounce and ... ml(s) for a more comprehensive vibration survey to ... of natural frequencies with associated damping ratios, mode ...

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[Analyses of dynamic response of vehicle and track coupling system with random irregularity of](#)

...

X Lei, NA Noda - *Journal of Sound and Vibration*, 2002 - Elsevier

... but are inadequate in understanding vibration characteristics of ... The dynamic equation of vehicle in the coupling ... u and $\frac{1}{2}Ku$ are mass, damping and stiffness ...

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[Design Sensitivity Analysis of Noise, Vibration, and Harshness of Vehicle Body Structure*](#)

S Wang - *Mechanics Based Design of Structures and Machines*, 1999 - informaworld.com

... at a seat of the passenger vehicle, aircraft, or ... 2 shows original and adjoint analyses for structural vibration and acoustic ... For the hysteretic damping case, Eq ...

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[Component mode synthesis of a vehicle structural-acoustic system model](#)

SH Sung, DJ Nefske - *AIAA journal*, 1986 - pdf.aiaa.org

... To complete the model, damping of the vehicle body modes and compartment ... structural modal damping was inferred from the measured vibration response of a ...

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[Vibration analysis of a vehicle body and suspension system using a substructure synthesis](#)

...

J Lee, DJ Thompson, HH Yoo, JM Lee - *International Journal of Vehicle Design*, 2000 - Inderscience

... are an important part of a vehicle as these ... with rigid body elements, scalar springs and hysteretic damping ... cavity effect as well as structural vibration of a ...

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Brake noise and vibration-the state of the art

DA Crolla, AM Lang - **Vehicle Tribology: Proceedings of the 17th Leeds-Lyon ...**, 1991 - books.google.com
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... damper—a new concept for **vibration damping** in power ... of clonk phenomenon in **vehicle**
 transmission—measurement ... In **Multi-body Dynamics: Monitoring and Simulation ...**

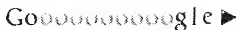
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YK Cheung, FTK Au, DY Zheng, YS Cheng - **Journal of sound and Vibration**, 1999 - Elsevier

... All the dofs associated with the **car body** within each substructure ... The **vibration**
 modes $X_M G(x)$ are Fourier sine series for a ... **vehicle damping** ratio, $T^*c/2m T$; ...

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M Fafard, M Bennur, M Svrd - Engineering Computations, 1997 - emeraldinsight.com
... and theoretical research on highway-bridge vibration has been ... This is known as Rayleigh
damping and is given by ... assumed that the mass of the **vehicle body** can be ...

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W Zhai, Z Cai - Computers and Structures, 1997 - Elsevier
... x_0) $k=1,2,\dots$, K . (15) **damping** and stiffness ... at high Interaction between a train
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...-acoustic modal coupling analysis and application to noise reduction in a vehicle ...- Full

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... ANSYS, ABAQUS, in which **vibration** response of ... Furthermore, various **damping** elements
render the acoustic ... of numerical analysis for the **vehicle** noise problem. ...

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Vertical vibration analysis of vehicle/imperfect track systems

TH Young, CY Li - Vehicle System Dynamics, 2003 - informaworld.com
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GA Borase, N Vlahopoulos - Finite Elements in Analysis & Design, 2000 - Elsevier
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FTK Au, JJ Wang, YK Cheung - Engineering Structures, 2002 - Elsevier
... and Zhen [12] investigated the space **vibration** of cable ... The effect of **damping** and
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The prediction of structural vibration transmission through a motor vehicle using statistical ...-

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... Structural **vibration** transmission in a **vehicle body** will depend ... variations in plate
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Shape optimization of a vehicle hat-shelf improving acoustic properties for different load ...

S Marburg, HJ Hardtke - Computers and Structures, 2001 - Elsevier
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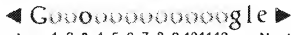
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